



## Applications

- Mast Head Preamps
- Laboratory Testing
- High Performance Front Ends
- COFDM/CDMA
- Broadcast Industry
- OEM Equipment/System Builders

## Features

- High Linearity
- Low Noise
- Dual power feed options:
  - 6-12V DC
  - Phantom Power

- On board regulator
- Power Status LED
- SMA Connectors
- Mounting Holes

## Description

An extensive range of LNA modules are available to cover bands from 525MHz to 3.6GHz. These modules are ideal for use as mast head amplifiers and general laboratory test equipment where very high performance is essential.

The modules are available with external dc feed, or 'phantom' dc power feed via the RF OUT connector. A built-in voltage regulator makes these modules extremely easy to use, allowing them to be powered from any suitable unregulated power source in the range 6V to 12V dc. An LED indicates power present.

The modules incorporate a small mounting plate which provides heat-sinking and mounting platform if desired.

## Generic Specification

CRITERIA	LIMITS	NOTES
Physical Dimensions	L (49mm) X W(22.50mm) X H(10mm)	Including end launch SMA connectors
Operating Voltage	Min 6V, Max 14V	Mounting to suitable heatsink may be required at higher operating voltages
Operating Temperature	85 degC	Maximum Base plate temperature
Mounting Holes	2.5mm	Suitable for M2.5 Bolt with 5mm Head

## Module Specifications

### Single Stage LNAs

Product Code	Fo (MHz)	BW (MHz)	F1 (MHz)	F2 (MHz)	P.Gain (dB)	Flatness (+/-dB)	N.F (dB)	P <sub>1</sub> dB (dBm)	OIP3 (dBm)	S <sub>11</sub> (dB)	S <sub>22</sub> (dB)	Vd (V)	Id (mA)	Pd (mW)	RF IN PWR (Max dBm)
LNA1-859-70-19	859	70	824	894	19	0.5	0.5	14	27	-18	-10	6	65	390	25
LNA1-925-70-18	925	70	890	960	18	0.5	0.5	14	27	-18	-10	6	65	390	25
LNA1-859-70-20.5	859	70	824	894	20.5	0.5	0.7	20	31	-17	-8.5	6	100	600	25
LNA1-925-70-20	925	70	890	960	20	0.5	0.7	20	31	-17	-8.5	6	100	600	25
LNA1-1500-200-16	1500	200	1400	1600	16	0.5	0.7	15	27	-18	-10	6	45	270	25
LNA1-1500-200-17	1500	200	1400	1600	17	0.5	0.6	21	33	-17	-10	6	90	540	25
LNA1-1810-120-15.5	1810	120	1750	1870	15.5	0.5	0.6	16	27	-18	-10	6	45	270	25
LNA1-1810-120-16	1810	120	1750	1870	16	0.5	0.6	21	33	-18	-10	6	100	600	25
LNA1-2045-250-14	2045	250	1920	2170	14	1.0	0.7	16	27	-18	-10	6	45	270	25
LNA1-2045-250-15	2045	250	1920	2170	15	1.0	0.6	20	33	-18	-10	6	100	600	25
LNA1-2500-400-12	2500	400	2300	2700	12	1.5	0.9	16	28	-18	-10	6	45	270	25
LNA1-2500-400-12.5	2500	400	2300	2700	12.5	1.5	0.8	20	33	-18	-10	6	100	600	25
LNA1-3500-200-10	3500	200	3400	3600	10	1.0	0.9	15	32	-16	-12	6	45	270	25
LNA1-3450-300-10.5	3450	300	3300	3600	10.5	1.0	1	21	36	-16	-12	6	100	600	25

### Wide Band LNAs

Product Code	Fo (MHz)	BW (MHz)	F1 (MHz)	F2 (MHz)	Gain (dB)	Flatness (+/-dB)	N.F (dB)	P1dB (dBm)	OIP3 (dBm)	S <sub>11</sub> (dB)	S <sub>22</sub> (dB)	Vd (V)	Id (mA)	Pd (mW)	RF IN PWR (Max dBm)
LNA1-525-950-16	525	950	50	1000	16	1.0	1.5	19	31	-15	-5	6	100	600	25
LNA1-525-950-16	525	950	50	1000	16	1.0	1.7	21	35	-15	-5	6	160	960	25
LNA1-1125-2150-15	1125	2150	50	2200	15	2.0	1.5	20	31	-10	-5	6	100	600	25
LNA1-1125-2150-15	1125	2150	50	2200	15	2.0	1.7	21	35	-10	-5	6	160	960	25

We are continuously extending our product range, so if you cannot see a suitable module please contact us for a more up to date product list.

For further information and pricing please contact us at:

**adaptiveRF Ltd**  
12A High Street  
Botley  
Southampton  
Hampshire  
SO30 2EA  
United Kingdom

Phone: +44(0)1489 798155  
Email: [sales@adaptiveRF.com](mailto:sales@adaptiveRF.com)  
Web: <http://www.adaptiveRF.com>